

### **Abstract of the Disclosure**

Methods of controlling an arc welding shop. In the shop, several welding torches are used and each torch is supplied with consumable wire. The wire moves at a wire speed and is subjected to an electrical current. For each torch, either an average wire speed or an average electrical current, as measured over a fixed time period, is determined by a sensor. These values then allow productivity parameters to be selected for the torches. Productivity parameters include the duty factor, the deposition rate, the average duty factor, and the average deposition rate.